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Find the *Kontron / Gespac PCISYS-PIIIM* at our website: *Click HERE*

CompactPCI®

PCISYS-PII/III



EMBEDDED SERVER

Mobile Pentium® II/III 3U CPU Board

GESPAC's PCISYS-PII/III is a new 3U CompactPCI single board computer based on the Pentium II/III Mobile Module. Ideally suited for systems requiring high performance and small, robust form factor, the PCISYS-PII/III is a perfect fit for embedded machine control, transportation, medical equipment, data communication and multimedia applications.

The Intel MMC-2 Mobile Module integrates the Pentium II/III core at up to 600+ MHz, along with the 440BX NorthBridge chipset and up to 512kB of L2 cache memory. This modular design allows the board to be easily configured with either the Pentium II or Pentium III processor.

In addition to all of the standard PC functions, the PCISYS-PII/III board offers many extended features including Fast Ethernet, high performance AGP Graphics, Wide Ultra SCSI and Flash Disk capability. Two DIMM sockets permit the installation of up to 512 MB of SDRAM. A Flash Disk is available via the DiskOnChip® 2000 socket that supports up to 288 MB of high reliability data storage. The C&TB69030 controller provides high performance SVGA graphics using the Advance Graphics Port architecture. Equipped with 4 MB of fast VRAM, resolutions of up to 1600 x 1200 x 16 bpp colours can be achieved.

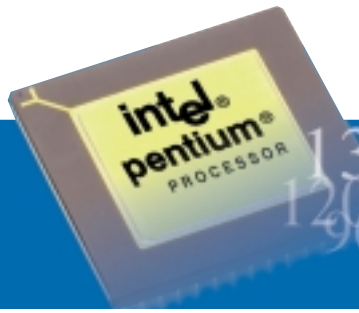
Fast Ethernet and Wide Ultra SCSI interfaces are implemented using the iLogic SYM53C885 controller. This multi-function device features 3 independent DMA channels (SCSI, Ethernet Transmit, and Ethernet Receive). The full duplex 10Base-T and 100Base-Tx Ethernet port is compatible with the 802.3 standard and provides 100 Mbits/s operation. The Wide Ultra SCSI port supports up to 15 mass storage devices with a transfer rate of 40 MB/s. The SCSI interface is available through the CompactPCI J2 connector.

The SouthBridge PIIX4 device incorporates an UltraDMA/33 Enhanced IDE interface, PCI to ISA bridge and the Universal Serial Bus port. The remaining standard PC interfaces are implemented using the National Semiconductor Super I/O controller including COM1, COM2, LPT1, floppy, keyboard and mouse

The PCISYS-PII/III's 8HP front panel includes status LEDs and standard connectors for PS/2 mouse, PS/2 keyboard, VGA, USB, Ethernet and COM1. The PCISYS-PII/III is fully compatible with EMC regulations and with the CompactPCI specifications PICMG™ 2.0 R3.0.

The PCISYS-PII/III is 100% PC compatible, allowing it to run popular operating systems such as DOS, Window®9X, WindowsNT™/00, Windows®CE, and Linux, as well as embedded Real Time operating systems such as VXWorks® and QNX®.

Linux VxWorks® Windows® 95 Windows® 2000 Windows® Embedded Windows® 98 QNX®



133 166 266 MHz 500 600

Innovative Embedded Solutions

Gespac

Technical features

CPU
- Pentium Mobile Module II @ 266 to 333+ MHz or Pentium Mobile Module III @ 500 to 600+ MHz
- Intel 440BX Pentium II Chipset

Memory
- Up to 512 kB Level 2 pipelined burst cache memory
- Two DIMM modules for up to 512 MB SDRAM
- 256 kB FlashEPROM BIOS
- Up to 288 MB DiskOnChip Flash Disk device

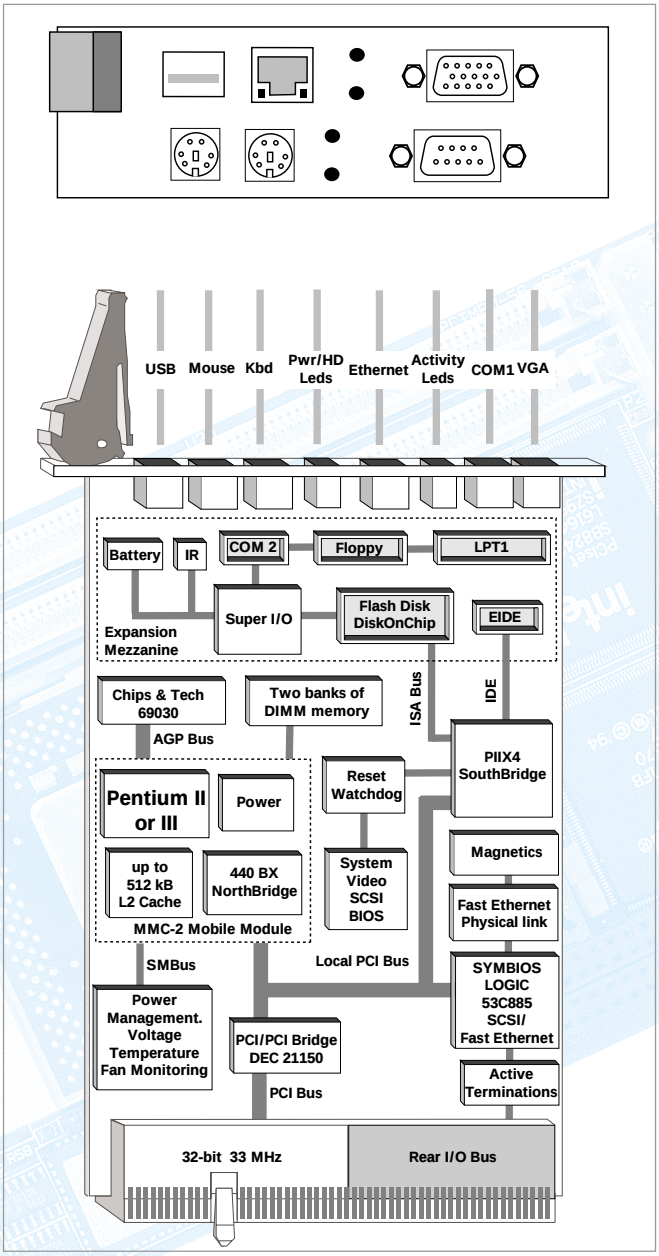
Video
- C&TB69030 SVGA/AGP controller for CRT
- Up to 1600 x 1200 x 16 bpp resolution (4 MB VRAM)

SCSI & Ethernet controllers
- iLogic SYM53C885 Multi-Function Controller
- Fast Ethernet 10Base-T/100Base-Tx (10/100 Mbits/s)
- Wide Ultra SCSI (up to 40 MB/s) on rear I/O

Peripheral ports
- Enhanced IDE interface up to 2 drives (UltraDMA/33)
- COM1-2 serial ports (16x50)
- PS/2 mouse and keyboard interfaces
- LPT1 parallel interface (EPP/ECP)
- Floppy disk interface
- USB

CompactPCI interface
- 3U format (100x160mm), 8HP front panel (IEEE 1101.10)
- 32-bit 33 MHz CompactPCI Bus Access
- 3.3V/5V signalling System Slot Adapter
- Fully compliant with Bus specifications PICMG 2.0 R3.0
- Power consumption: +5V/1,1A, +3.3V/1,3A, +12V/0,1A w/ PIII-500MHz, 128M SDRAM, SCSI Drive

Additional features
- Real Time Clock, Watchdog timer
- Temperature sensor
- System Management Bus



Order Information

PCISYS-PIIx ... CompactPCI processor board with Pentium II @ 266 MHz for x=D, 333 MHz for x=F
PCISYS-PIIIy ... CompactPCI processor board with Pentium III @ 500 MHz for y=M, 600 MHz for y=Q
RPICSI-1 .....Rear I/O module for Wide Ultra SCSI connection
PINLPTSIO-1.....Interface module for COM2 and LPT1
DIMM modules and DiskOnChip Flash Disk device on request

Innovative Embedded Solutions

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Ref. XDF-PCISYS-PII 0104 Rev.3

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